

10

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Paul, your new mountain bike is here! See inside for details on how you can win a trip to Yellowstone National Park to ride through the Rocky Mountains. Don't wait, offer expires February 13, 2001.





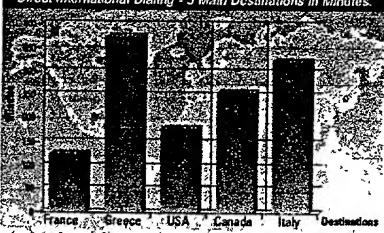
**Sample Pie Chart**



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**Example U-2** A diver with mass of 54 kg falls vertically a distance of 15 meters from rest (Fig. 7-3). What is the work done by the force of gravity on the diver? Find the final velocity of the diver immediately before she hits the water. To find this, use the work-energy theorem and treat the diver as a point-like object.

**Solution:** Use a conventional x-y axis with the y-axis pointing upward. Measure the position of the diver relative to the axis. She starts at a position of zero on the y-axis and hits the water at a position of -15 on the y-axis. The total change of distance is  $y = -15m$ . The force of the gravity is the lone force acting on the diver. The magnitude of gravitational force is  $mg$  and its direction is down. There is only a y-component of force. The y-component is  $F = -mg$ .

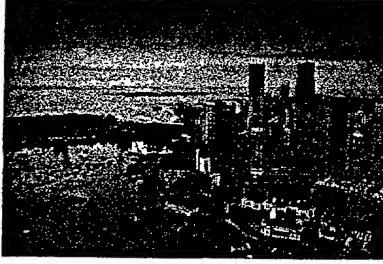


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**Marker Sets**

FIGURE 1  
SDPZ76PA

-12

Curve X, Level Y, Text Z

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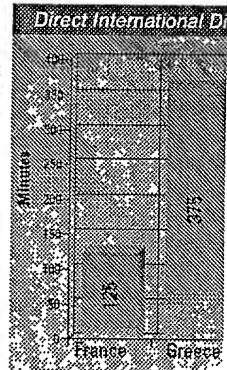
### Sample Pie Chart



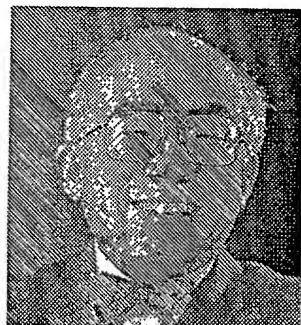
Yours sincerely,  
Amelley S. Greebee  
Amelley S. Greebee  
Chairwoman  
Vice President  
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**Example U-2** A diver falls a distance of 15 meters from a bridge. This is done by the force of gravity. Calculate the potential energy of the diver immediately before he hits the water. Use the work-energy theorem and consider the diver as a like object.



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FIGURE 2  
SDPZ76PA

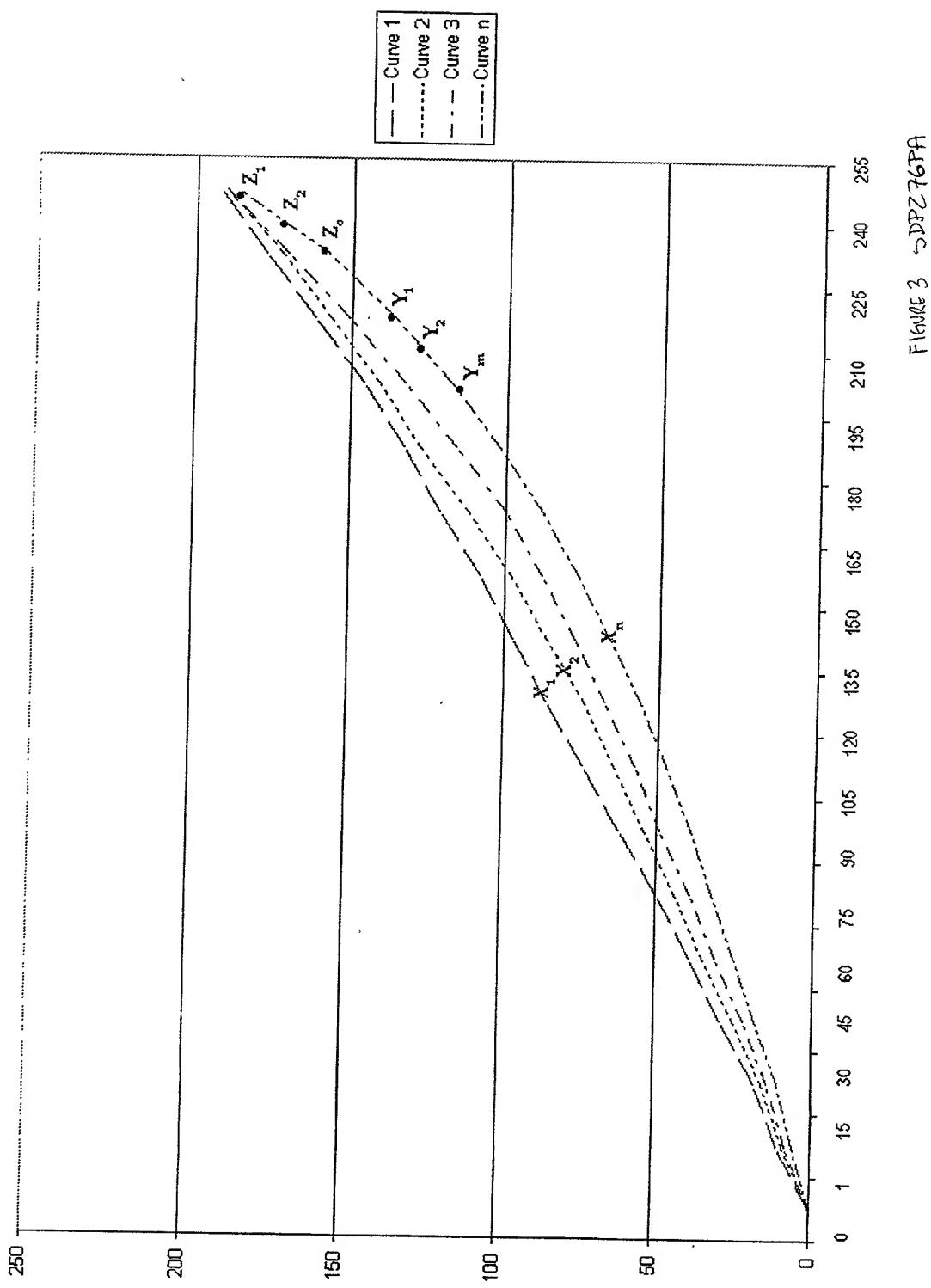


FIGURE 3  $\rightarrow$  DPP276PA

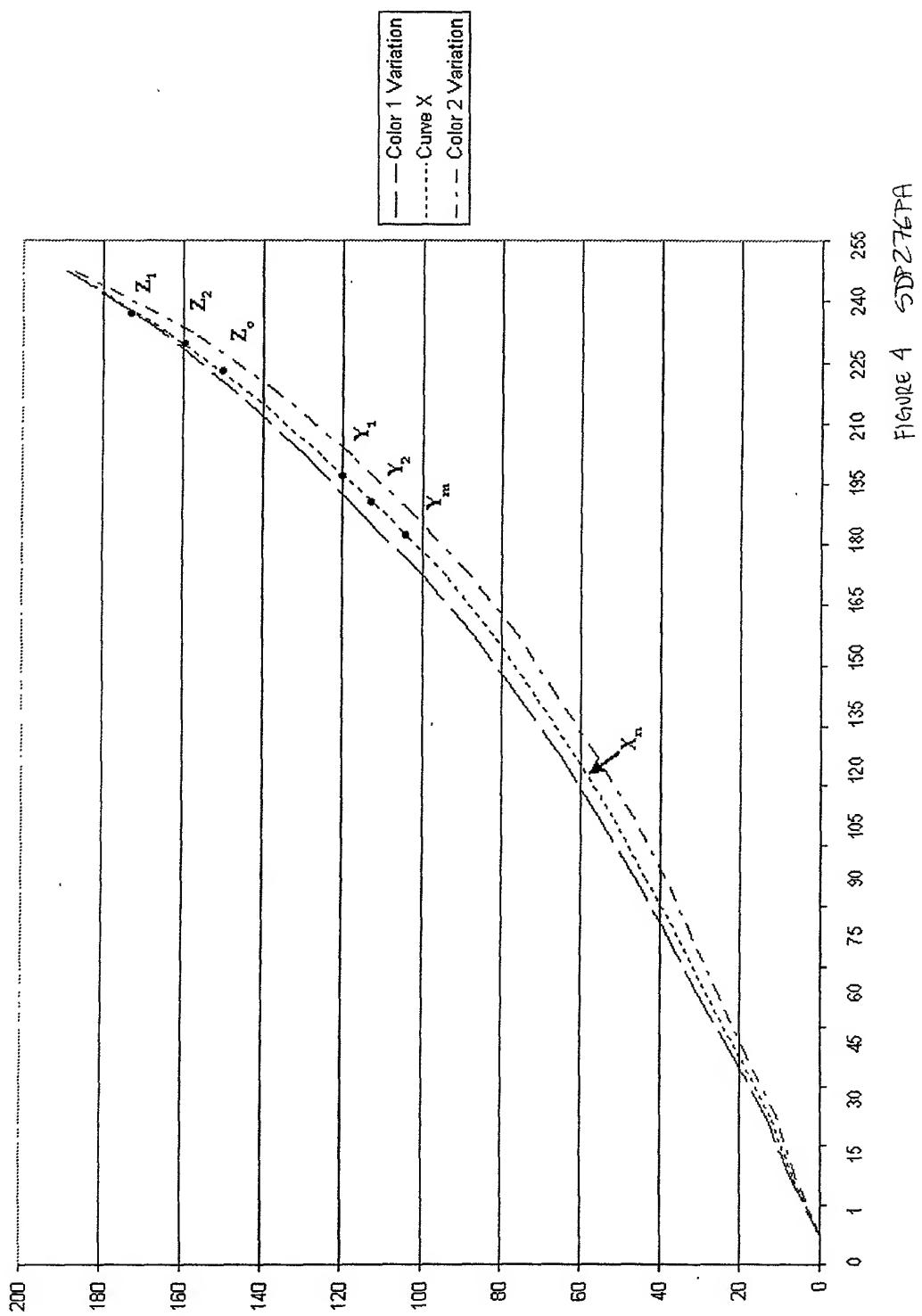


FIGURE 4 SDF276PA